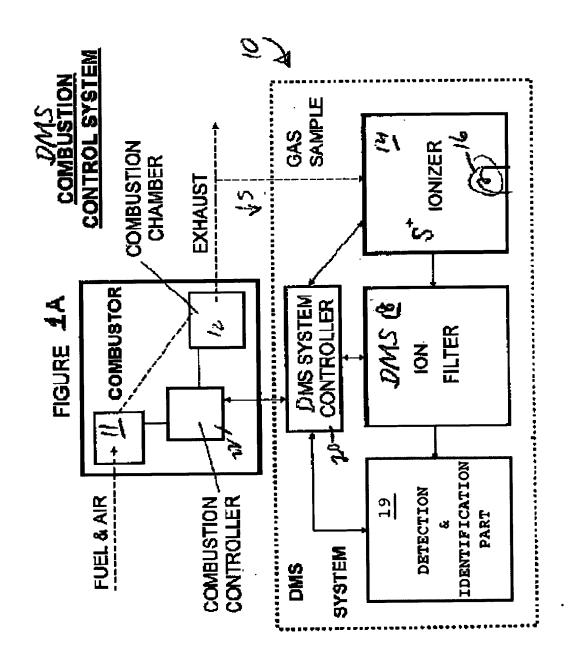
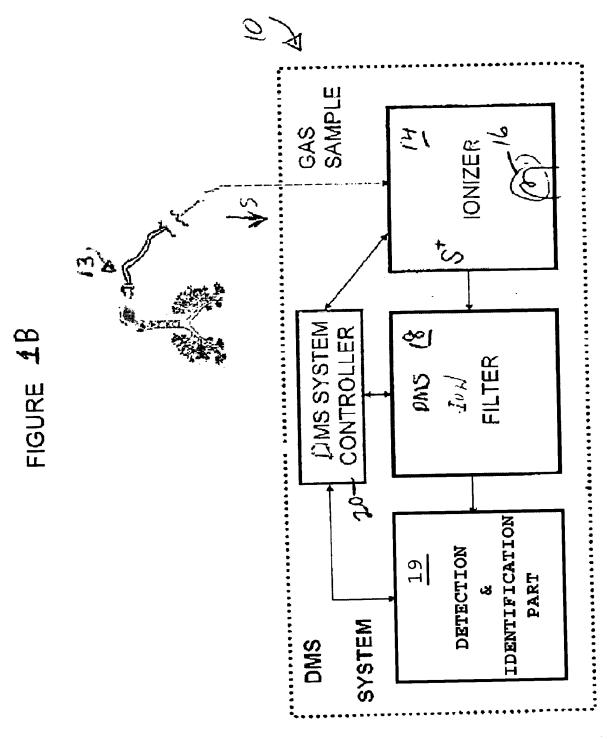
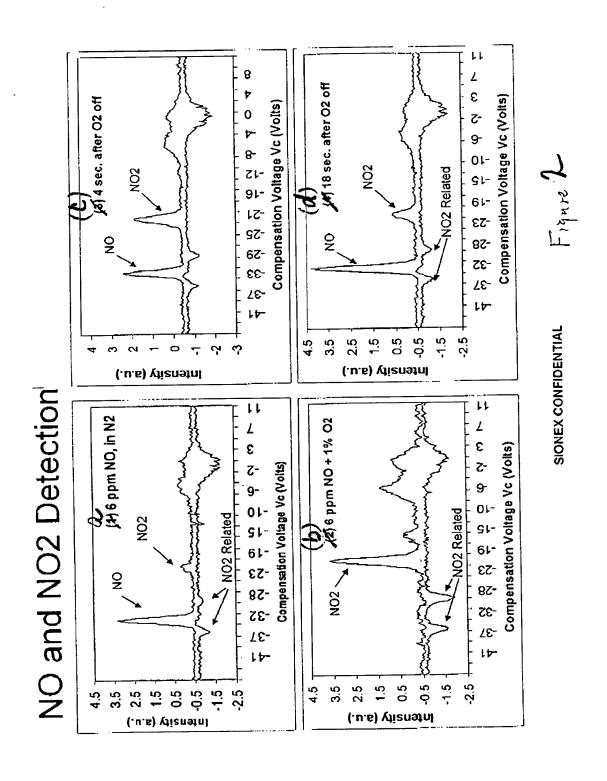
Title: NOx Monitor Using Differential Mob...



Title: NOx Monitor Using Differential Mob...



Title: NOx Monitor Using Differential Mob...



Docket/App No.: 3239.1039-001 Title: NOx Monitor Using Differential Mob...

Inventors: Raanan A. Miller, et al.

Mass-spectra for positive NOx ions

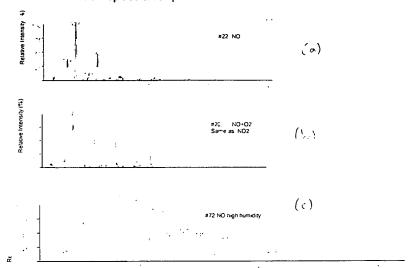


Figure 11

Mass-spectra for negative NOx ions

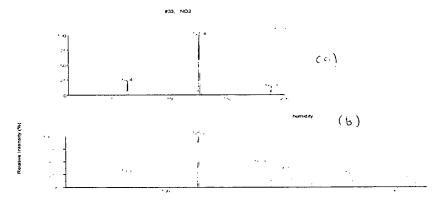
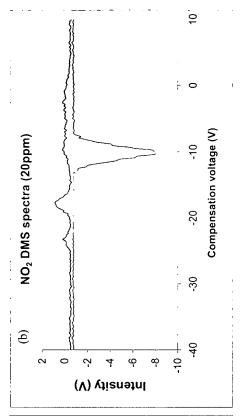
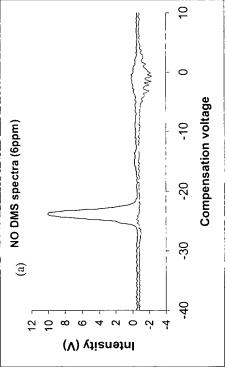


Figure 12

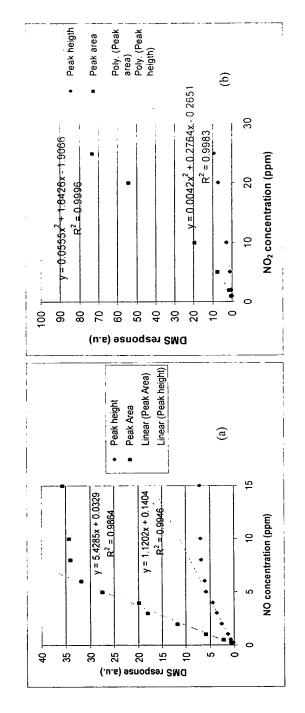
Docket/App No.: 3239.1039-001 Title: NOx Monitor Using Differential Mob... Inventors: Raanan A. Miller, et al.



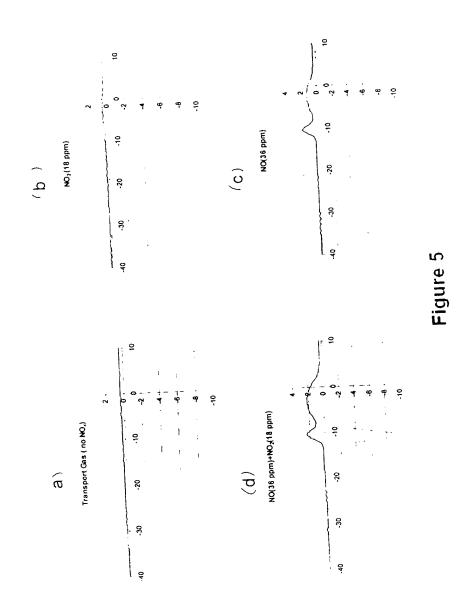




Docket/App No.: 3239.1039-001 Title: NOx Monitor Using Differential Mob...



Docket/App No.: 3239.1039-001 Title: NOx Monitor Using Differential Mob... Inventors: Raanan A. Miller, et al.



Title: NOx Monitor Using Differential Mob...

Inventors: Raanan A. Miller, et al.

Positive and Negative Mode Spectra

] ,

Concentration Dependence for Negative Ions

Peak

45

height x7

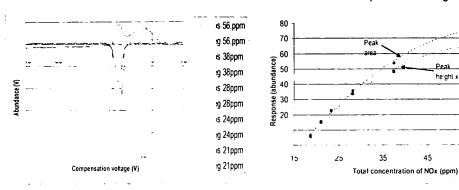
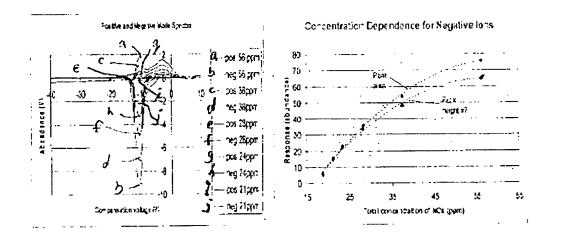


Figure 6



Docket/App No.: 3239.1039-001 Title: NOx Monitor Using Differential Mob...

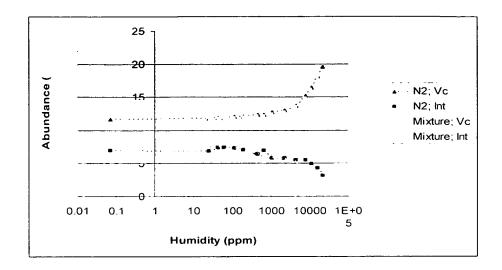


Figure 7

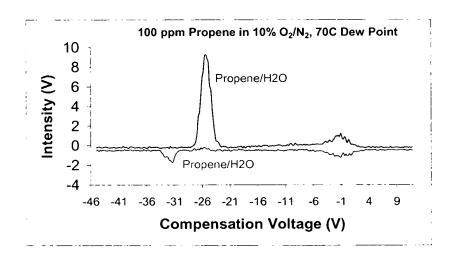
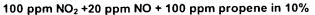


Figure 8

Title: NOx Monitor Using Differential Mob...



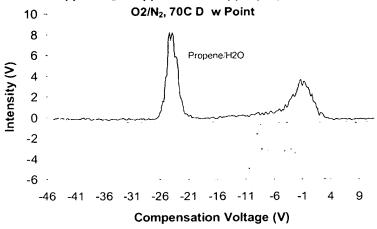


Figure 9

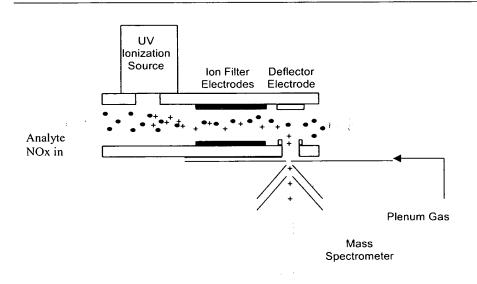


Figure 10

Docket/App No.: 3239.1039-001 Title: NOx Monitor Using Differential Mob... Inventors: Raanan A. Miller, *et al*.

	Total amount	EI eV	EA eV	PA KJ/mol	Positive Ions	Negative Ions
Nitric Oxides: NO NO2	200ppm	9.3 9.5	0.026 2.3	531 591	yes yes	no yes
H2O	10%	12.6	-	691	no	no
Oxygen	9%	12.06	0.45	421	no	yes
CO2	5%	13.77	-0.6	540	no	no
Hydrocarbons: methane propane and propene	490ppm 625ppm	12.61 10.94 9.73	- - -	543 625 751	no no yes	no no no
СО	300ppm	14.01	1.37	594	no	yes
Hydrogen	150ppm	15.4	-	422	no	no
Ethane	10ppm	11.52	-	596	no	no
Nitrogen	Balance	15.58	-	493	no	no

Figure 13 (Table 1)
Ionization energies, proton and electron affinities of selected compounds.